

State Water Resources Control Board

UST CASE CLOSURE SUMMARY

Agency Information

Current Agency Name: State Water Resources Control Board (State Water Board)	Address: 1001 I Street, PO Box 2231, Sacramento, CA 95812
Current Agency Caseworker: Mr. Matthew Cohen	Case No.: Not applicable

Former Agency Name: Los Angeles County Department of Public Works (Prior to 5/21/2013)	Address: 900 South Fremont Avenue Alhambra, CA 91803-1331
Former Agency Caseworker: Mr. Alberto Grajeda	Case No.: 005517-005718

Case Information

USTCF Claim No.: None	Global ID: T0603759489
Site Name: Shell Service Station	Site Address: 4357 Cesar E. Chavez Avenue Los Angeles, CA 90022 (Site)
Responsible Party: Shell Oil Products Attention: Mr. Marvin Katz	Address: 20945 South Wilmington Avenue Carson, CA 90810
USTCF Expenditures to Date: Not applicable	Number of Years Case Open: 16

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603759489

Summary

The Low-Threat Underground Storage Tank Case Closure Policy (Policy) contains general and media-specific criteria, and cases that meet those criteria are appropriate for closure pursuant to the Policy. This case meets all of the required criteria of the Policy. Highlights of the Conceptual Site Model (CSM) upon which the evaluation of the case has been made are as follows:

Residual petroleum constituents in soil were discovered during the underground storage tanks (USTs), dispenser islands, and associated piping upgrade activities in 1998. Soil sample results indicated that concentrations of total petroleum hydrocarbons as gasoline (TPHg) were up to 360 mg/kg in the vicinity of the southern dispenser islands and associated product piping.

The Site is an operating gasoline service station. The surrounding area is commercial and residential. No public water supply wells or surface water bodies exist within 1,000 feet of the Site. Groundwater depth is approximately 115 feet below ground surface. The groundwater flow direction is towards the southeast in the vicinity of the Site.

Shell Service Station
4357 Cesar E. Chavez, Los Angeles, Los Angeles County

The most recent soil sampling event in January 2013 shows that benzene, toluene, ethylbenzene, and xylenes were mostly non-detect and only insignificant concentrations of TPHg at well below 100 mg/kg were detected in the vicinity of the former USTs and dispenser islands.

Depth discrete groundwater sample collected in January 2013 indicate that petroleum constituents were mostly non-detect. Benzene and methyl tert-butyl ether were detected in only one groundwater sample at a concentrations below water quality objectives (WQO). TPHg was also detected in only one groundwater sample at a concentration slightly above the WQO. Since 1998, 19 soil borings were constructed, 239 soil samples were collected, and 3 groundwater samples were collected near and beneath former USTs, dispenser islands, and associated product piping.

Residual petroleum constituents are limited and vertical and horizontal limits of the plume are defined. Corrective actions have been implemented and additional corrective actions would be ineffective and expensive. Any remaining petroleum constituents do not pose significant risk to human health, safety, or the environment.

Rationale for Closure under the Policy

- General Criteria – Site **MEETS ALL EIGHT GENERAL CRITERIA** under the Policy.
- Groundwater Media-Specific Criteria – Site meets Policy Groundwater-Specific **CLASS (1)**.
- Petroleum Vapor Intrusion to Indoor Air Criteria – Site meets the **EXCEPTION** for vapor intrusion to indoor air. The Site is an active petroleum fueling facility and has no release characteristics that can be reasonably believed to pose an unacceptable health risk.
- Direct Contact and Outdoor Air Exposure Criteria – Site meets **CRITERIA (3) a**. Maximum concentrations of petroleum constituents in soil from confirmation soil samples are less than or equal to those listed in Table 1 of the Policy. There are no soil samples results in the case record for naphthalene. However, the relative concentration of naphthalene in soil can be conservatively estimated using the published relative concentrations of naphthalene and benzene in gasoline. Taken from Potter and Simmons (1998), gasoline mixtures contain approximately 2% benzene and 0.25% naphthalene. Therefore, benzene concentrations can be used as a surrogate for naphthalene concentrations with a safety factor of eight. Benzene concentrations from the Site are below the naphthalene thresholds in Table 1 of the Policy. Therefore, estimated naphthalene concentrations meet the thresholds in Table 1 and the Policy criteria for direct contact with a safety factor of eight. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.

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Recommendation for Closure

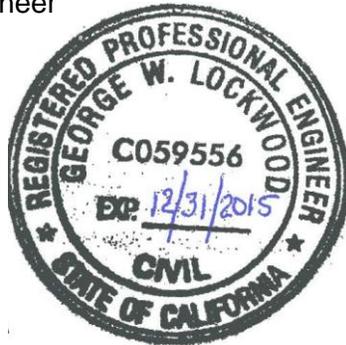
The corrective action performed at this Site ensures the protection of human health, safety, the environment and is consistent with chapter 6.7 of the Health and Safety Code and implementing regulations, applicable state policies for water quality control and the applicable water quality control plan, and case closure is recommended.

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04/03/2014
Date

Reviewed By: George Lockwood
George Lockwood, PE#59556
Senior Water Resource Control Engineer

04/03/2014
Date



Shell Service Station
 4357 Cesar E. Chavez, Los Angeles

SITE PLAN

